2 Sheets—Sheet 1.

J. MARSDEN.

BILLIARD-TABLE.

No. 187,878. Patented Feb. 27, 1877.

Fig 1.

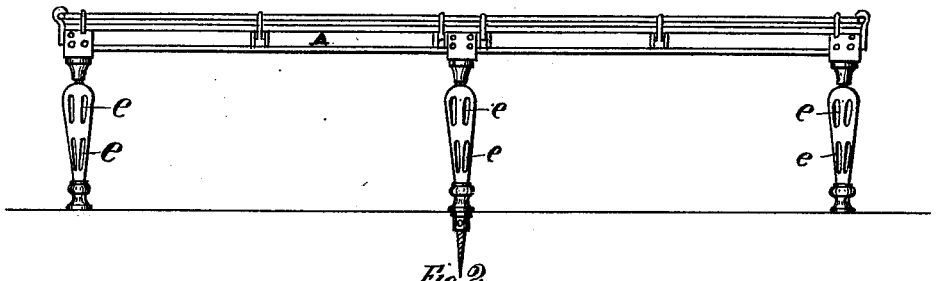


Fig 2.

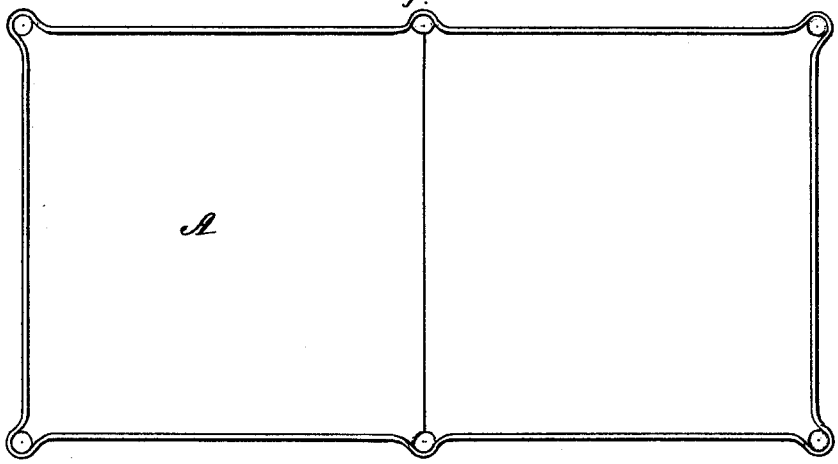


Fig 3.

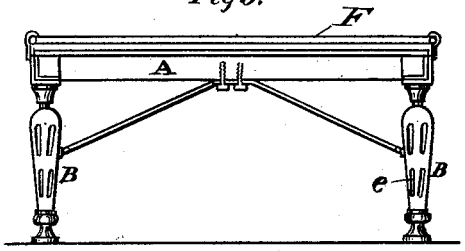
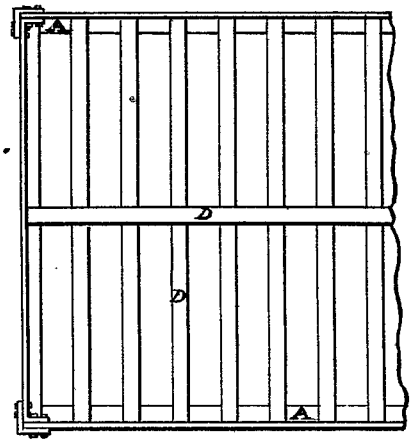


Fig 4.



Witnesses.

Donn F. Twitchell.
Will H. Dodge.

Inventor.

John Marsden.
by Dodger & Son.
Attys.

2 Sheets—Sheet 2.

J. MARSDEN.

BILLIARD-TABLE.

No. 187,878. Patented Feb. 27, 1877.

Fig 5

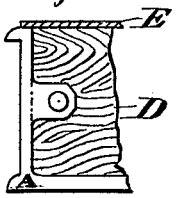


Fig 6.

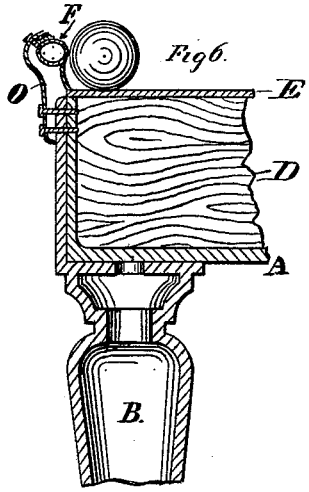


Fig 7.

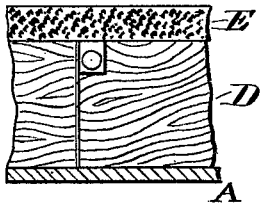
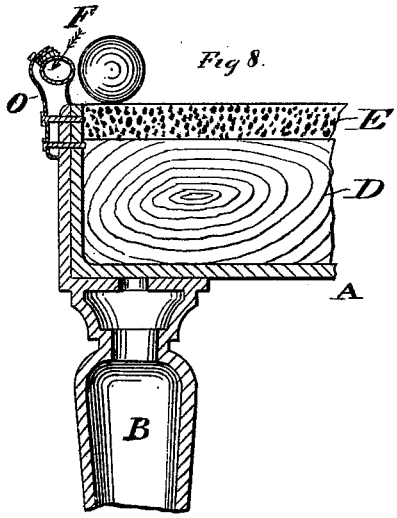


Fig 8.



Witnesses.

Donn J. Twitchell.
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UNITED STATES PATENT OFFICE.

JOHN MARSDEN, OF LIVERPOOL, ENGLAND.

IMPROVEMENT IN BILLIARD-TABLES.

Specification forming part of Letters Patent No. **187,878**, dated February 27, 1877; application filed December 8, 1876.

To all whom it may concern:

Be it known that I, JOHN MARSDEN, of Liverpool, in the county of Lancaster, in the Kingdom of England, have invented new and useful Improvements in Apparatus for Playing Billiards, of which the following is a specification:

In the accompanying drawings, Sheet 1 shows the general arrangement, and Sheet 2 series of details.

My invention consists, chiefly, in the construction of billiard-tables in a cheap form, capable of being used out of doors without injury.

Figures 1 and 3 are elevations; Fig. 2, a plan of table complete; Fig. 4, same, with plate removed; Figs. 5 to 8, sectional views, showing how the bed, whether of cement or of zinc plates, is fixed.

In these, A is a metallic frame, resting on hollow metallic legs B, in which are perforations *e*, Figs. 1 and 3, so as to act as a cue-rack, and also to lighten the metal and the appearance; D, beams of wood, all of the same height, upon which the bed is placed. The plate or plates forming the bed can be naked or painted, or enameled with a water-proof composition. Sometimes, especially with concrete beds, these timbers are replaced by metal cross-bearers, as in Fig. 4, bolted to the frame and formed in one with it. In this case the tops of all are accurately planed to a uniform level.

E is the bed, resting on the frame-work above mentioned. In Figs. 5 and 6 it is shown as if made of zinc, and in Figs. 7 and 8, as of concrete. In making this bed of concrete, I first accurately plane a cast-iron face-plate. On this are accurately planed edgings inclosing the space to be filled with concrete to form a slab of the right size. All the edgings are of uniform height, usually one and three-eighths inch, and the concrete is cast in, and beveled off to, the height of the edgings. When set the slab is turned over, and the lower surface used as the surface of the table.

The concrete can be made with cement, or even asphalt. Any concrete that sets into a hard, tough, fine-grained, homogeneous mass, will do.

F is the cushion, usually made of a flattened tube. It is fixed to the side of the table by brackets O, as shown. The balls are preferably made of india-rubber.

It will be seen at once that this table cannot be damaged by exposure to sun and rain, and is therefore eminently adapted for out-door playing.

I claim as my invention—

1. A billiard-table for out-door use, consisting of the metal frame A, provided with the slats or bars D and concrete bed E, and the metallic rail F, adapted for use in connection with rubber or other highly elastic balls, as set forth.

2. The metallic rail F, applied to the frame A, substantially as shown and described.

3. The perforated legs B, arranged as described, whereby they form a rack for the cues, as set forth.

JNO. MARSDEN.

Witnesses:

WM. P. THOMPSON,

EDWARD G. COLTON.